



Operating Voltage: 24V DC  
No Load Speed: 8700±10% rpm  
No Load Current: 0.1A Max

#### Notice:

1. Input voltage: 8~26V DC, rated voltage: 24V DC, Max current: 1A REF
2. Table connector interface:
  - 2.1 CW rotation: when red wire is connected to positive, black, white and orange wire are connected to negative.
  - 2.2 CCW rotation: when red wire is connected to positive, black and white wire are connected to negative.
  - 2.3 Yellow wire is FG signal, it's calculated the motor real time speed by reading the motor frequency.
  - 2.4 When using the motor, make sure to understand notes of each wire, no transposing positive and negative, otherwise motor will be burnt out.
3. When assembling part to motor shaft, it is necessary to against the other side of shaft to prevent motor moving and destroy motor.
4. When the motor is switched rotation, it is necessary to switch after the motor stops running.

| Pin No. | SIGNAL   |                    | I/O | SPECIFICATION                  | REMARK  |
|---------|----------|--------------------|-----|--------------------------------|---|
| 1       | GND      |                    | IN  | Ground                         | Black wire, Ground  |
| 2       | Vcc      |                    | IN  | 24V (Operating range: 8V~26V)  | Red wire, motor power supply  |
| 3       | FG       | VOH                | OUT | 2.5≤V≤5.0, at 5V 4.7KΩ pull up | Yellow wire, this is the open collector output, which can detect the rotation speed using the FG output according to the phase shift. |
|         |          | VOL                |     | 0.5V Max                       |   |
|         |          | FG current         |     | 3mA Max                        |   |
|         |          | FG pulse quability |     | 9 pulse / round                |   |
| 4       | PWM      | Input voltage      | IN  | 0~5.0V                         | White wire  |
|         |          | VIH                |     | Min 2.5V                       | Motor stop  |
|         |          | VIL                |     | Max 0.6V                       | Motor running (Low=Motor running)   |
|         |          | PWM Frequency      |     | Advise 20kHz~30kHz             |   |
| 5       | CW / CCW | Input voltage      | IN  | 0~5.0V                         | Orange wire, CCW/CW select  |
|         |          | VIH                |     | Min 2.5V                       | CCW (High=CCW)  |
|         |          | VIL                |     | Max 0.6V                       | CW (Low=CW)   |
|         |          |                    |     |                                |   |

|           |      |            |  |             |
|-----------|------|------------|--|-------------|
| Drawn     | Tony | 11/20/2025 | Unit: mm   |             |
| Checked   | Eva  | 11/20/2025 | <b>Kysan Electronics</b><br><a href="http://www.kysanelectronics.com">www.kysanelectronics.com</a> |             |
| Eng Appr. |      |            |  |             |
| Mfg Appr. |      |            |  |             |
| Q.A.      |      |            |  |             |
| SKU:      |      |            | Siae: A4   | Weight(Kg): |
| 1025127   |      |            | Scale  |             |